

Substitute for form 1449/PTO (modified)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Page 1 of 1

Application Number	10/732796
Filing Date	December 10, 2003
First Named Inventor	Gupta, Shalley K.
Art Unit	1625
Examiner Name	Unknown
Attorney Case Number	58182US004

**U.S. Patent Documents**

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
FH	A1	US- 2003/0022302 A1	01-30-2003	Lewis et al.	
FH	A2	US- 2004/0014779 A1	01-22-2004	Gorden et al.	
FH	A3	US- 2004/0023870 A1	02-05-2004	Dedera et al.	
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			
	A9	US-			

**Foreign Patent Documents**

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (If known)				
FH	B1	WO	03/089602	10-30-2003			
	B2						
	B3						
	B4						
	B5						
	B6						
	B7						

**OTHER DOCUMENTS**

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
FH	C1	Akira S. et al., "Recognition of pathogen-associated molecular patterns by TLR family", <u>Immunology Letters</u> , 2003, Vol. 85, pgs. 85-95.	
FH	C2	Heil et al.; "Synthetic immunostimulatory compounds activate immune cells via TLR7 and TLR8"; 33th Annual Meeting of the Deutsche Gesellschaft für Immunologie, Marburg 2002 - Abstract C.6	
FH	C3	Ozinsky A. et al., "The repertoire for pattern recognition of pathogens by the innate immune system is defined by cooperation between Toll-like receptors", <u>Proc. Nat. Acad. Sci.</u> , December 2000, Vol. 97, No. 25, pgs. 13766-13771.	

\*Examiner: /Fozia Hamud/

Date Considered: 06/29/2006

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FH	A1	US- 5,731,193	03-24-1998	Mori et al.	
	A2	US-			
	A3	US-			
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			
	A9	US-			
	A10	US-			
	A11	US-			

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	C1		
	C2		
	C3		

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Information Disclosure Statement)

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Page 1 of 1

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First Named Inventor

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Art Unit

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Examiner Name

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	A1	US-			
	A2	US-			
	A3	US-			
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			

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	B6						
	B7						

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FH	C1	Gorden et al., "Synthetic TLR Agonists Reveal Functional Differences between Human TLR7 and TLR8", <u>The Journal of Immunology</u> , 2005, Vol. 174, pgs. 1259-1268.	
FH	C2	Sauder et al., "Randomized, Single-Blind, Placebo-Controlled Study of Topical Application of the Immune Response Modulator Resiquimod in Healthy Adults", <u>Antimicrobial Agents and Chemotherapy</u> , December 2003, Vol. 47, No. 12, pgs. 3846-3852.	
	C3		

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Information Disclosure Statement)

Substitute for form 1449/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 1 of 4	Application Number	
	Filing Date	
	In re Application of:	Shail y K. Gupta, Tarun K. Ghosh and Jason R. Fink
	Art Unit	1847
	Examiner Name	Unknown
	Attorney Case Number	58182US004

U.S. Patent Documents					
Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
PH	A1	US- 4,689,338	08-25-1987	Gerster	
	A2	US- 4,698,348	10-06-1987	Gerster	
	A3	US- 4,929,624	05-29-1990	Gerster et al.	
	A4	US- 4,988,815	01-29-1991	Andre et al.	
	A5	US- 5,037,986	08-06-1991	Gerster	
	A6	US- 5,175,296	12-29-1992	Gerster	
	A7	US- 5,238,944	08-24-1993	Wick et al.	
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	A11	US- 5,352,784	10-04-1994	Nikolaides et al.	
	A12	US- 5,367,076	11-22-1994	Gerster	
	A13	US- 5,376,501	12-27-1994	Mariën et al.	
	A14	US- 5,389,640	02-14-1995	Gerster et al.	
	A15	US- 5,395,937	03-07-1995	Nikolaides et al.	
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	A28	US- 6,194,338 B1	02-27-2001	Andolfatto et al.	
✓	A29	US- 6,194,425 B1	02-27-2001	Gerster et al.	

*Examiner: /Fozia Hamud/	Date Considered: 06/29/2006
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Information Disclosure Statement — PTO-1449 (Modified)

<b>Substitute Form 1449/PTO (modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 2 of 4	<b>Application Number</b>	10/732,796
	<b>Filing Date</b>	
	<b>In re Application of:</b>	Shalley K. Gupta, Tarun K. Ghosh and Jason R. Fink
	<b>Art Unit</b>	1647
	<b>Examiner Name</b>	Unknown Hamud
	<b>Attorney Case Number</b>	58182US004

U.S. Patent Documents					
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		Doc. Number-(Kind Code if Known)			
FH	A30	US- 6,200,592 B1	03-13-2001	Tomai et al.	
	A31	US- 6,207,646 B1	03-27-2001	Krieg et al.	
	A32	US- 6,239,116 B1	05-29-2001	Krieg et al.	
	A33	US- 6,245,776 B1	06-12-2002	Skwierczynski et al.	
	A34	US- 6,329,381 B1	12-11-2001	Kurimoto et al.	
	A35	US- 6,331,539 B1	12-18-2001	Crooks et al.	
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	A49	US- 2002/0055517 A1	05-09-2002	Smith	
	A50	US- 2002/0058674 A1	05-16-2002	Hedenstrom et al.	
	A51	US- 2003/0139364 A1	07-24-2003	Krieg et al.	

Foreign Patent Documents							
Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
FH	B1	EP	0 394 026	10-24-1990			
FH	B2	EP	1 104 764	06-06-2001			
FH	B3	JP	9-208584	08-12-1997			
FH	B4	JP	11-80156	03-26-1999			X

<b>*Examiner:</b> /Fozia Hamud/	<b>Date Considered:</b> 06/29/2006
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<b>Substitute for form 1449A/PTO (modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 3 of 4	<b>Applicati n Number</b>	
	<b>Filing Date</b>	
	<b>In re Applicati n of:</b>	<b>Shalley K. Gupta, Tarun K. Gh sh and Jason R. Fink</b>
	<b>Art Unit</b>	
	<b>Examiner Name</b>	<b>Unknown</b>
	<b>Attorney Case Number</b>	<b>58182US004</b>

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		Ctry. Code	Number-KindCode (if known)				
PH	B5	JP	11-222432	08-17-1999			X
	B6	JP	2000-247884 (abstract only)	09-12-2000			X
	B7	WO	00/47719	08-17-2000			
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	B13	WO	02/46188 A2	06-13-2002			
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	B15	WO	02/46190 A2	06-13-2002			
	B16	WO	02/46191 A2	06-13-2002			
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	B18	WO	02/46193 A2	06-13-2002			
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	B24	WO	03/043572 A2	05-30-2003			
V	B25	WO	03/045391 A1	06-05-2003			

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
PH	C1	Testerman, et al., "Cytokine Induction by the Immunomodulators Imiquimod and S-27609", <u>Journal of Leukocyte Biology</u> , Volume 58, pp. 365-372, September 1995.
PH	C2	Chollet, et al, "Development of a Topically Active Imiquimod Formulation", <u>Pharmaceutical Development and Technology</u> , 4(1), pp 35-43 (1999)

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	<b>Filing Date</b>	
	<b>In re Applicant:</b>	Shalley K. Gupta, Tarun K. Ghosh and Jas n R. Fink
	<b>Art Unit</b> 1647	
	<b>Examiner Name</b>	Unknown
	<b>Attorney Case Number</b>	58182US004

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PH	C3	Hornung et al., "Quantitative Expression of Toll-Like Receptor 1-10 mRNA in Cellular Subsets of Human Peripheral Blood Mononuclear Cells and Sensitivity to CpG Oligodeoxynucleotides", <u>The Journal of Immunology</u> , 2002, 168; pgs. 4531-4537.
	C4	Hemmi et al., "Small anti-viral compounds activate immune cells via the TLR7 MyD88-dependent Signaling pathway", <u>Nature Immunology</u> , vol. 3, no. 2; February 2002; pgs. 196-200.
	C5	Medzhitov, "Toll-Like Receptors and Innate Immunity", <u>Nature Reviews Immunology</u> , Vol. 1; November 2001, pgs. 135-145.
	C6	Jurk et al. "Human TLR7 and TLR8 independently confer responsiveness to the antiviral compound R-848", <u>Nature Immunology</u> , June 2002, vol. 3, no. 6; pg. 1.
	C7	Akira et al., "Toll-like receptors: critical proteins linking innate and acquired immunity", <u>Nature Immunology</u> , August 2001, vol. 2, no. 8; pgs. 675-680
	C8	Yamamoto et al.; "Essential role for TIRAP in activation of the signalling cascade shared by TLR2 and TLR4", <u>Nature</u> , Vol. 420; November 21, 2002; pgs. 324-337
	C9	Alexopoulou et al.; "Recognition of double-stranded RNA and activation of NF-κB by Toll-like receptor 3", <u>Nature</u> , Vol. 413; October 18, 2001; pgs. 732-738
	C10	Flo et al.; "Involvement of Toll-like Receptor (TLR) 2 and TLR4 in Cell Activation by Mannuronic Acid Polymers"; <u>The Journal of Biological Chemistry</u> , Vol. 277, No. 38, September 20, 2002; pgs. 35489-35495
	C11	Chuang et al.; "Toll-like receptor 9 mediates CpG-DNA signaling"; <u>Journal of Leukocyte Biology</u> , Vol. 71, March 2002; pgs. 538-544.
	C12	Schwandner et al.; "Peptidoglycan- and Lipoteichoic Acid-induced Cell Activation Is Mediated by Toll-like Receptor 2"; <u>The Journal of Biological Chemistry</u> , Vol. 274, No. 25, June 18, 1999; pgs. 17406-17409
↓	C13	Brassard et al.; "Interferon-α as an immunotherapeutic protein"; <u>Journal of Leukocyte Biology</u> , Vol. 71; April 2002; pgs. 565-581

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